## University of Gondar College of Medicine and Health Sciences Department of Nursing

A questionnaire and observational checklist prepared to assess magnitude and associated factors of medication administration error among nurses at Felege Hiwot Referral Hospital, Bahir Dar, Northwest Ethiopia, 2014.

	Part one: Face to Face interview questioner  1. Socio demographic characteristics of the nurses					
Sr No	Question	Response				
101	Age	in year				
102	Sex	A. Male B. Female				
103	Religion	A. Orthodox B. Muslim C. Protestant D. Catholic E. Other (specify)				
104	Ethnic group	A. Amhara B. Tigere C. Oromo D. Other (specify)				
105	Educational status	A. Diploma B. Degree C. Other (specify)				
106	Monthly salary	in ETB				
	2. Work relat	ed questions				
201	Working experience of the nurse	in year				
202	Working area	A. Medical ward B. Gynecology ward C. Pediatric ward D. Surgical ward E. ICU F. Emergency G. Recovery				
203	Duration in the specific/present unit	in month				
204	Nurse to patient ratio	1 to				

## Part two: Filled by direct observation of the nurse during medication administration

**Instruction:** Please observe the nurse starting from medication preparation to administration and write the exact information of the medication (any errors) based on the medication administration checklist. Use one format for a single patient medication administration process

Sr. N <u>o</u>	Question	Response
301	Patient 's age	in year
302	Patient's sex	A. Male
		B. Female
303	Time in which medication administered	
	(exact time of medication administration)	
304	Shift of medication administration	A. Day time
		B. Night time
305	Is there any interruption (like phone, talking	A. Yes
	with other staffs or clients) of the nurse at	B. No
	the time of medication preparation up to	
	administrations	

306. A table used to fill the type of the drug given to the patient by the observed nurse and the type of medication administration errors

	Type of error							
Name of the drug	Route of administration	Unauthorized drug error	Time error	Wrong route	Missed drug error	Dose error	Technique error	Documentation error
Ampcline								
Cry. Penciline								
Gentamicine								
Lasix								
Chloroamphnicol								
Ceftraxione								
Diclofinace								
Tramadole								
Quinine								
Chlorpromazine								
Diazepam								
Insulin								
Cephazdine								
Vancomycin								
Others								

307.	Examples	on	type	of	medication	administration	error	observed	at	each	observed
	medication	າຣ									

Part three: Competency checklist for medication administration

## Section 1: Core competencies check lists to assess technique errors of medication administration

N <u>o</u>	Check list	Yes	No
1	check expiration date		
2	Compare medication with order		
3	check label:		
	a. When taking from shelf		
	b. Before withdrawing/pouring		
	c. Before returning to shelf		
а	For Intramuscular Injections:	Yes	No
	Identifies the right patient		
	Explain the procedure		
	Ask about medication allergies		
	Ask if patient faints with injections		
	Select appropriate site		
	Cleanse site appropriately		
	Wearing gloves		
	Stretches skin taut		
	Injects at 90 degree angle		
	Aspirates		
	Injects appropriately		
	Withdraw the syringe appropriately		
b	For Subcutaneous Injections	Yes	No
	Identify the right patient		
	Explain the procedure		
	Ask about medication allergies		
	Ask if patient faints with injections		
	Select appropriate site		
	Cleanse site appropriately		

N <u>o</u>	Check list	Yes	No
	Wearing gloves		
	Skin grasped		
	Inject at 45 degree angle		
	Aspirates		
	Follows appropriate protocol if blood aspirates		
	Injects appropriately		
	Withdraw appropriately		
	Observes patient for reaction		
С	Intravenous Injections:	Yes	No
	Identify the right patient		
	Explain the procedure		
	Ask about medication allergies		
	Check for compatibility of medication and IV fluid		
	Provide information on the medication		
	Select appropriate site or observe the canula site		
	Wearing gloves		
	Inject appropriately		
	Withdraw appropriately		
	Proper syringe disposal		
	Observe the patient for reaction		
d	Oral medication (if patient is self medicated)	Yes	No
	Put the patient medication in locked cabinet		
	Clarify to the patient about the exact dose		
	About the exact time		
	Observe the patient at the time of swallowing		
	Observe the patient for reaction		

Section 2: Common antibiotic and the appropriate standard amount of diluents to be added for IV injections and its rate of administrations (Used for assessing technique error)

No	Name of	Preparation	Amount of diluents	Rate of
	antibiotic		for Iv injection	administration time
		250 mg	2.4ml	
1	Ceftriaxone	500 mg	4.8ml	Slowly 6-7 minutes
		1 gm	9.6ml	1
		2 gm	19.2ml	
2	Cloxacilin	250 mg	3-5ml	Slowly 3-4 minutes
		500 mg	3-5ml	
3	Chloroamphnical	500 mg	5ml	Within 1 min
		1 gm	10ml	
4	Cry. pencline	1 MIU	2ml	Slowly 3 minutes
5	Ampcline	250 mg	1ml	Slowly 3-5 minutes
		500 mg	1.8ml	
		1 gm	3.5ml	Slowly 5 minutes
6	Vancomicine	500 mg	100ml N/S	30 minutes
		1 gm	200ml N/S	60 minutes
7	Cephaziden	1 gm	10ml	Slowly 3 minutes

Section 3: Check list which describes each of medication administration errors

No	Description	Yes	No	Type of error
1	Fail to administer a prescribed medication			Missed drug error
	while the drug available at the patient bed			
	side			
2	Administered was not authorized by the			Unauthorized drug error
	prescriber which is different from the			
	physician order			
3	Perform less than 50% among the			Technique error
	procedure put at the technique competency			
	checklist for Medication Administration			
4	Medication dose or quantity different from			Wrong dose error
	the prescribed			
5	There is thirty min difference between the			Wrong time error
	ordered time (exact administration time) and			
	the time the medication is administered			
6	The medication administered through			Wrong route error
	different routes other than the physician			
	orders			
7	The medication which was administered to			Documentation error
	the patient not documented in medication			
	administration record sheet			

## Thank you!!!!